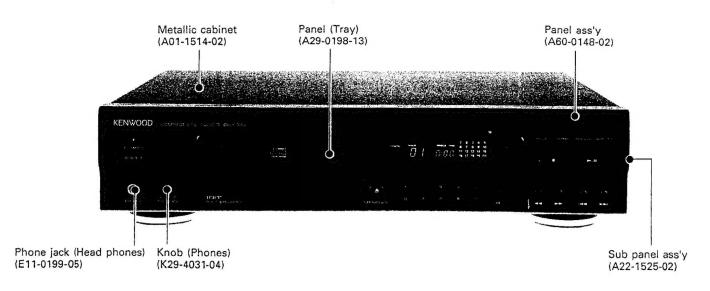
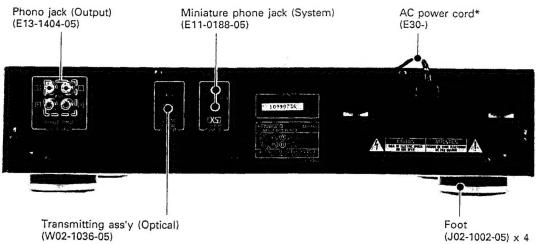
CD PLAYER

# DP-5040 SERVICE MANUAL

## KENWOOD

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\* Refer to parts list on page 27.

In complicance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER: Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

Note: Refer to DP-7040 service manual (B51-4337-00), if you want to know more information of Semiconductor description, Mechanism description and more.

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## CONTENTS ACCESSORIES .....

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Note: Refer to DP-7040 service manual (B51-4337-00), if you want to know more information of Semiconductor description, Mechanism description and more.

#### **ACCESSORIES**



• Batteries ("R6/AA") ......2





• AC plug adaptor.....1 (E03-0115-05)

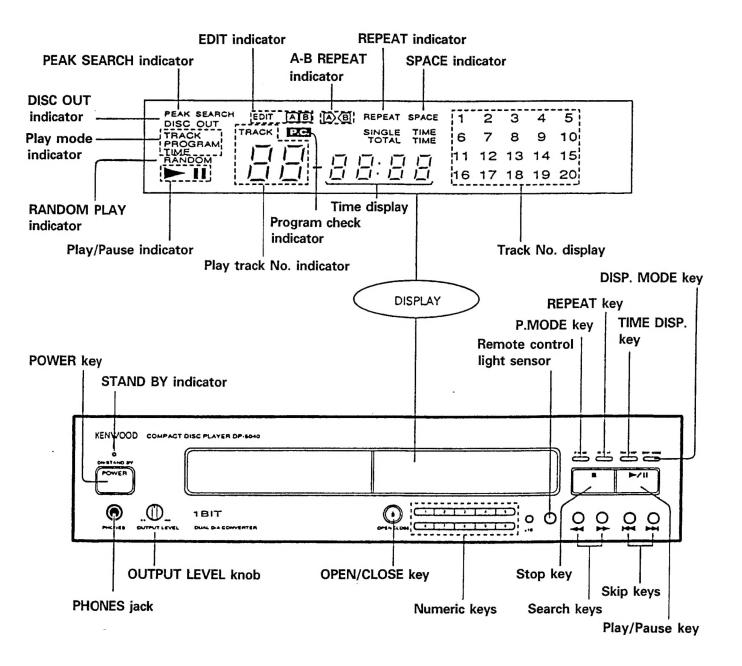


(Except for some areas)

For the unit with a European AC plug in areas other than Europe.



#### **CONTROLS**

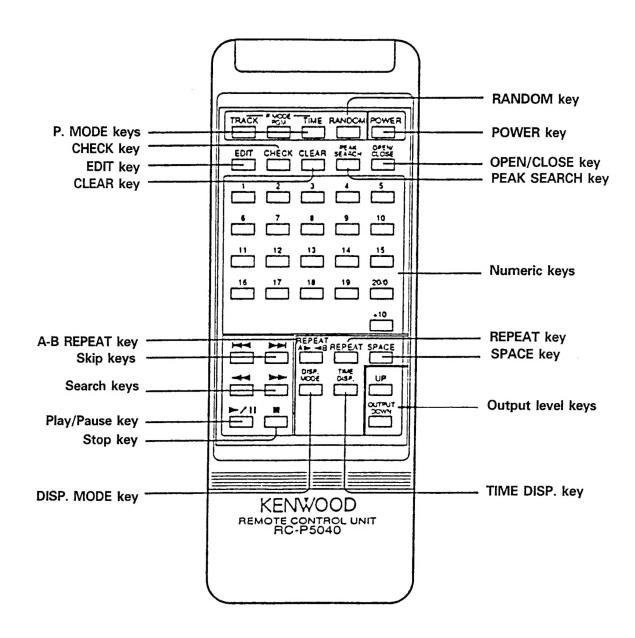


#### Caution

- Note related to transportation and movement Carry out the operations listed below befor transporting or moving this unit.
- 1. After making sure that is no disc loaded in the unit, turn the POWER switch ON.
- 2. Wait for severalsecond to verify that display becomes as shown, and then turn the POWER switch back OFF.

DISC OUT			1	2	3	4	5	
TRACK	TRACK	SINGLE TIME	6	7	8	9	10	
		0:00	11	12	13	14	15	
		$\cup \cdot \cup \cup$	16	17	18	19	20	

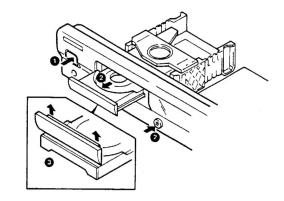
#### **REMOTE CONTROLS**



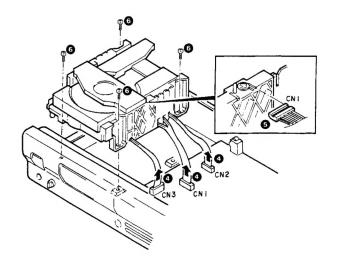
#### **DISASSEMBLY FOR REPAIR**

#### 1. How to Disassemble Mechanism

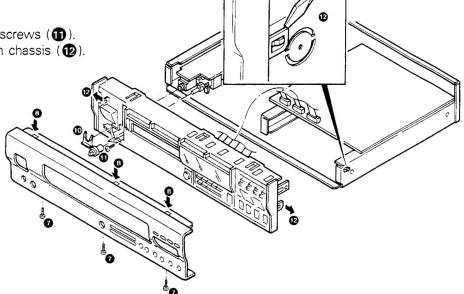
- 1. Push power switch to ON (1).
- Push open switch and slide the tray outwards (2).
- 3. Remove the tray panel (3).



- 4. Remove 3 connectors (4).
- 5. Insert connector CN1 to LD short pin (5).
- 6. Remove 4 screws (6) and mechanism ass'y.



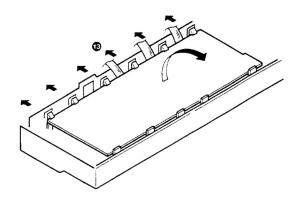
- 7. Remove 3 screws (7).
- 8. Remove sub panel catches from panel (8).
- 9. Remove 3 connectors (9).
- 10. Remove phones stopper (10).
- 11. Pull phones knob and remove 2 screws (11).
- 12. Remove sub panel catchers from chassis (12).



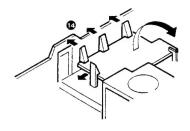
## )P-5040

### **DISASSEMBLY FOR REPAIR**

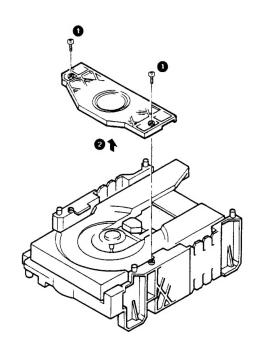
13. Remove pcb catchers and pcb (13).



14. Remove pcb catchers and pcb (14).

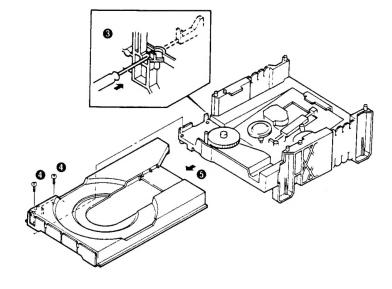


- 2. How to Remove Tray
- Remove 2 screws (1).
   Remove clamper ass'y (2).



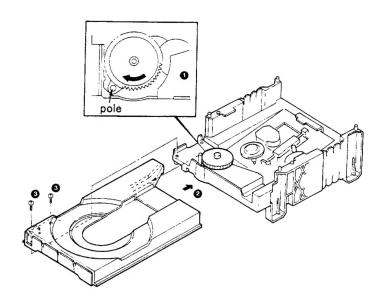
#### **DISASSEMBLY FOR REPAIR**

- 3. Insert the driver to left-side hole of mechanism ass'y and push the slider (3).
- 4. Remove 2 screws (4).
- 5. Tray can be pulled out (5).



#### 3. How to Mount Tray

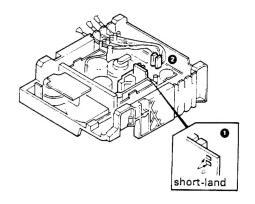
- 1. Set the pole to fully clockwise (1).
- 2. Insert the tray to both-side guide on chassis (2).
- 3. Fix 2 screws (3).



#### 4. How to Replace the Pickup

Short the short-land of the pickup before the following procedures (1).

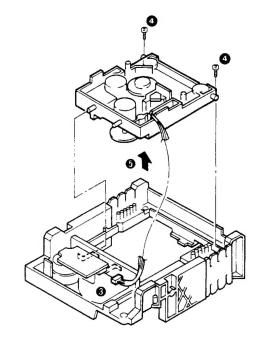
1. Remove 2 connectors (2).



## )P-5040

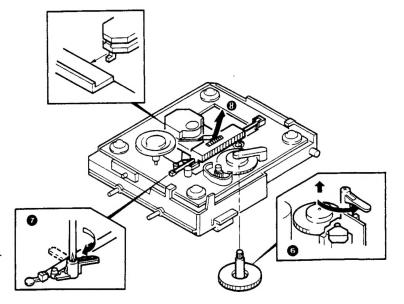
### **DISASSEMBLY FOR REPAIR**

- 2. Remove the connector (3).
- 3. Remove 2 screws (4).
- 4. Remove the mechanism drive (MD) ass'y (5).

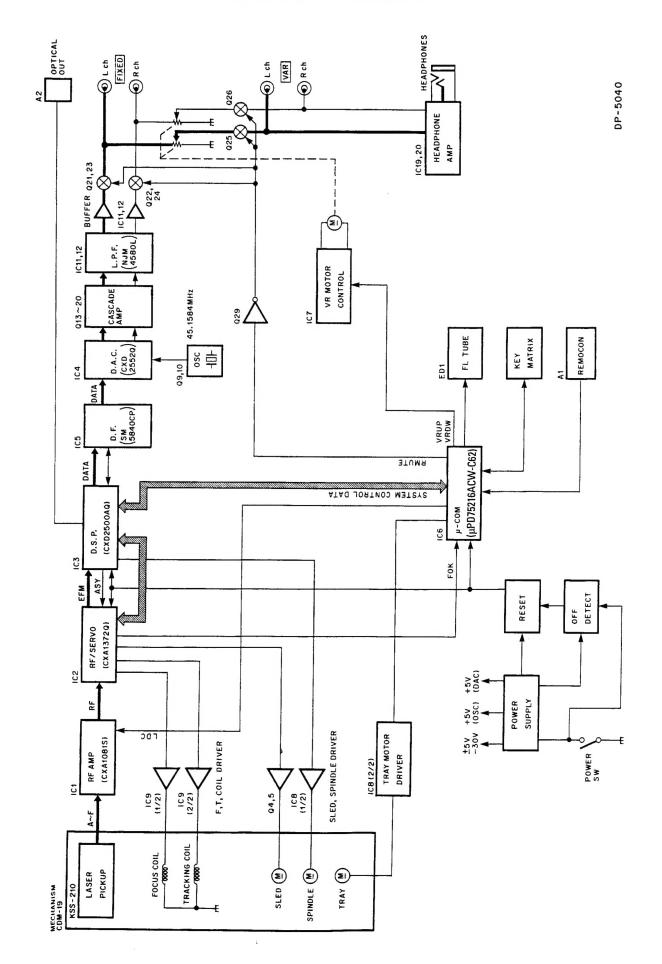


- 5. Remove stopper and gear (6).
- 6. Remove rod stopper (1).
- 7. Remove the pickup ass'y (3).

**Note**: When mounting the pickup, in the reverse order of disassembly. Unsolder the short land after connecting the flexible wire.



### **BLOCK DIAGRAM**



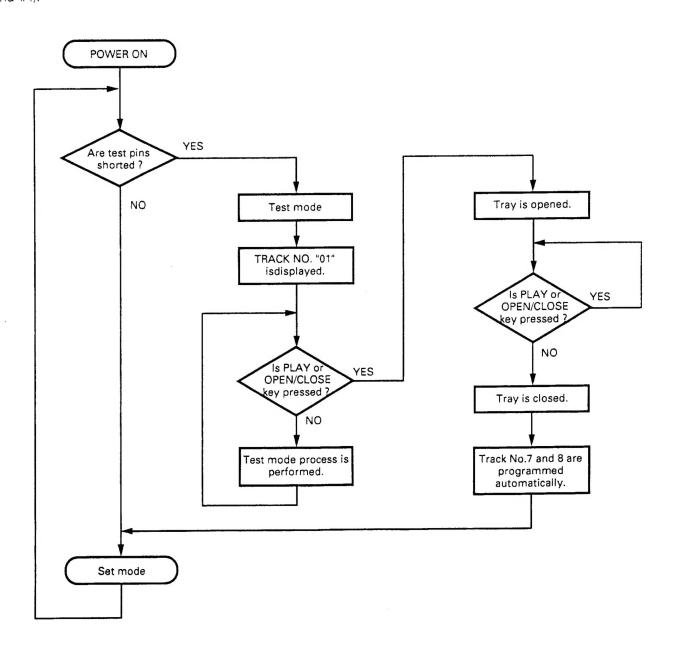
## )P-5040

#### **CIRCUIT DESCRIPTION**

#### 1. Test Mode

#### 1-1. Setting the test mode

This microprocessor built this unit can be put to TEST MODE by just short-circuiting the test pins (#3 and #4).



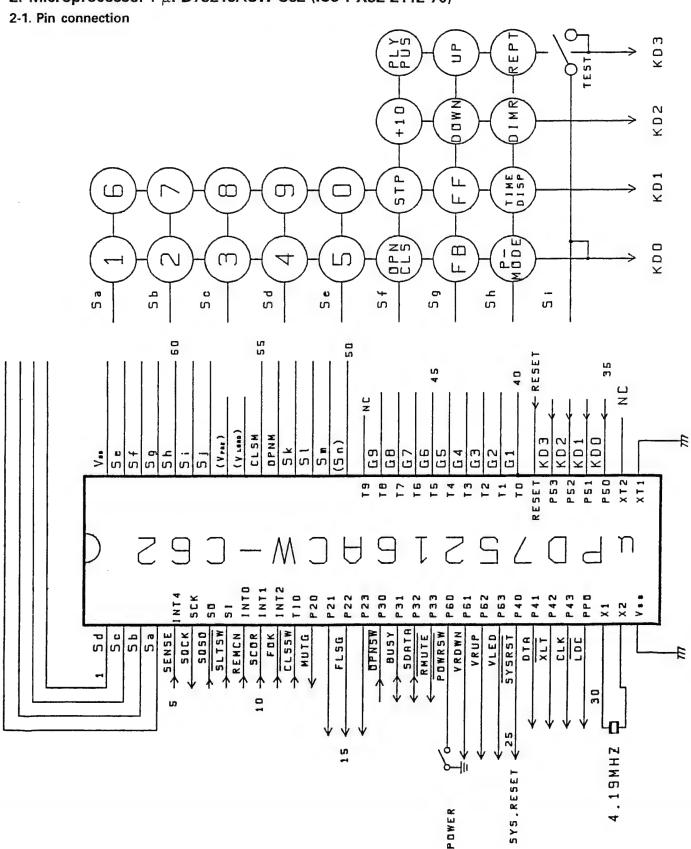
### **CIRCUIT DESCRIPTION**

1-2. Key and functions valid in test mode

No.	Input key	Function	Track No. display
1	PLAY / PAUSE	(1) Focusing servoON	TRACK NO.
	( <b>►</b> /H)	(2) Tracking servoON	75
		(3) Feed servoON	l u J
			<b>↓</b>
			Displayed for a few seconds after
			completion (1), (2) and (3).
			1
			Time (Play mark) and disc
			Track No. are displayed.
2	DISPLAY	(1) Focusing servoON	TRACK NO.
	MODE	(2) Tracking servoOFF	, , , ,
		(3) Feed servoOFF	
		Pause ( ▮ ) is blinked.	
3	STOP	(1) Focusing servoOFF	TRACK NO.
	( 📰 )	(2) Tracking servoOFF	<i>[</i> ]
	:	(3) Feed servoOFF	
4	UP	Turns all FL display lamps ON.	TRACK NO.
	( ▶ → )		88
5	DOWN	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO.
	( 🖊 )		
6	P.MODE	Track No. 7 and 8 are programmed and playbacked.	-
		The test mode is canceled.	
7	OPEN / CLOSE	When the tray is opened then closed in test mode.	
	( 📤 )	Track No. 7 and 8 are programmed and set is in STOP mode.	-
		The test mode is canceled.	
8	FF	In the STOP mode, moves the pickup slightly toward the position of disc.	-
	( )	The test mode is available in this condition.	
9	FB	In the STOP mode, moves the pickup slightly toward the position of disc.	-
	( 44 )	If turn on start limit switch, the pickup stops to move.	

#### **CIRCUIT DESCRIPTION**

2. Microprocessor :  $\mu$ PD75216ACW-C62 (IC6 : X32-2112-70)



## **CIRCUIT DESCRIPTION**

#### 2-2. Pin function

Pin No.	Pin name	1/0	Function
1~4	Sd~Sa	0	FL segment control terminals (also used for key scan signal).
5	SENSE	1	Signal detection terminal for SENSE signal from processor and servo ICs.
6	SQCK	0	Q data read clock output terminal.
7	SQSO	1	Q data input terminal.
8	SLTSW	1	Start limit switch (L : sw on).
9	REMCN	1	Remote control input terminal.
10	SCOR	I	Sub-code frame sync detection signal input terminal.
11	FOK	1	Input terminal for FOK signal from RF amp (focus OK : "H").
12	CLSSW	1	Tray close-switch (L: sw on).
13	MUTG	0	Digital mute signal to CXD2500 (H : mute on).
14	_	0	Not used.
15	FLSG	0	Display control (H: display off).
16		0	Not used.
<sup>*</sup> 17	OPNSW	0	Tray open switch (L: tray open).
18	BUSY	1/0	Busy signal input/output terminal.
19	SDATA	1/0	Serial data signal input/output terminal.
20	RMUTE	0	Realy mute signal (L : mute on).
21	POWRSW	-	Power key switch input terminal (L : key is pressed).
22	VRDWN	0	Headphone volume control (H : vol. down).
23	VRUP	0	Headphone volume control (H : vol. down).
24	VLED	0	Headphone volume control (LED blink : volume knob is turning).
25	SYSRST	0	System reset signal (L : reset).
26	DTA	0	Data output terminal to CXD2500.
27	XLT	0	Data latch output terminal to CXD2500.
28	CLK	0	Clock output terminal to send data to CXD2500.
29	LDC	0	Laser diode control (L : on, H : off).
30	X1	1	Input terminal of system clock (4.19MHz).
31	X2	1	Input terminal of system clock (4.19MHz).
32	Vss		GND.
33	XT1	-	Vss.
34	XT2		Open.
35~38	KD0~KD3		Key data input terminal.
39	RESET	1	Reset input terminal (active "L").
40~48	G1~9	0	FL digit control terminals.
49	T9	-	N.C.
50	Sn	0	Not used.
51~53	Sm~Sk	0	FL segments control terminals.
54	OPNM	0	Output terminal of tray-open signal.
55	CLSM	0	Output terminal of tray-close signal.
56	VLOAD		FL driver power supply.
57	VPRE		FL pre-driver power supply.
58~63	Sj~Se	0	FL segment control terminals.
64	VDD	-	Power supply.

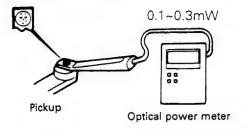
### **ADJUSTMENT**

		TUPUT	OUTPUT	PLAYER	ALIGNMENT		
No.	ITEM	SETTING	SETTING	SETTING	TRIOG	ALIGN FOR	FIG
1	LASER POWER	-	Set the sesor section of the optical power meter on the pickup lens.	Short-circuit pins TEST and turn the power on to enter the test mode.Press the "DISPLAY MODE" key to check that the display is "03".	-	On the power from 0.1 to 0.3mW, when the diffraction grating is correctly aligned with the RF level of 1.0Vp-p or more	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. -CH1: RF (CN4-1) CH2: TE (CN4-6)	Load disc and set to test mode. Confirm the display is "03".	TE BALANCE VR1	Symmetry between upper and lower or DC=0±0.05Y	(c)
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF(CN4-1) CH2: TE(CN4-6)	Press the PLAY key. Confirm that the display is 05 °.	FE BALANCE VR2	Optimum eye pattern	(d)
4	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0kHz,100mVrms to CN4 pin 2-3.	Connect a LPF to CN4 pin 2-3 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key. Confirm that the display is 05 ~.	FOCUS GAIN VR3	Two VTYMs should read the same value.	(e)
5	TRACKING GAIN	Test disc Type 4	Connect a LPF to CN4 pin 5-6 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key. Confirm that the display is 05 .	TRACKING GAIN VR4	Two VTVMs should read the same value.	(e)

(Note) Type 4 disc: SONY YDS-18 Test Disc or equivalent.

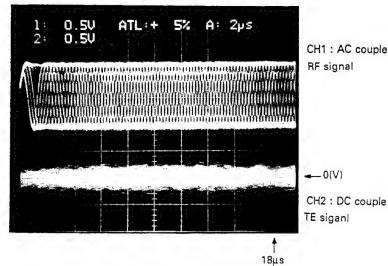
LPF: Around 47kohms+390pF or so. Step 1~5 are in Test Mode.

#### (a) Laser Power



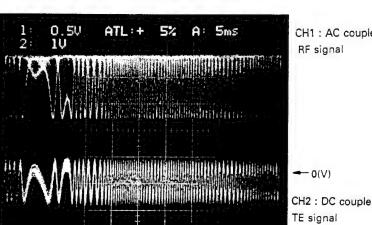
#### (e) Focus Gain and Tracking Gain Adj.

#### **ADJUSTMENT**



CH1: AC couple RF signal

- RFsignal and E.Spot signal in test mode (PLAY).
- · If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of appox. 18µs after RF signal, in the form of a projection.



CH1: AC couple RF signal

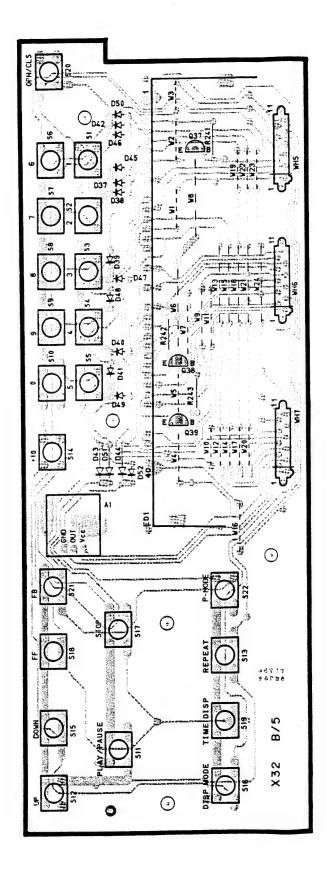
-0(V)

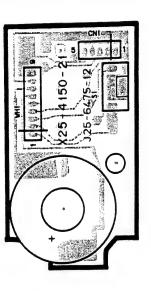
- RF signal and T.Error signal in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical upper and lower or DC 0V. (VR1)

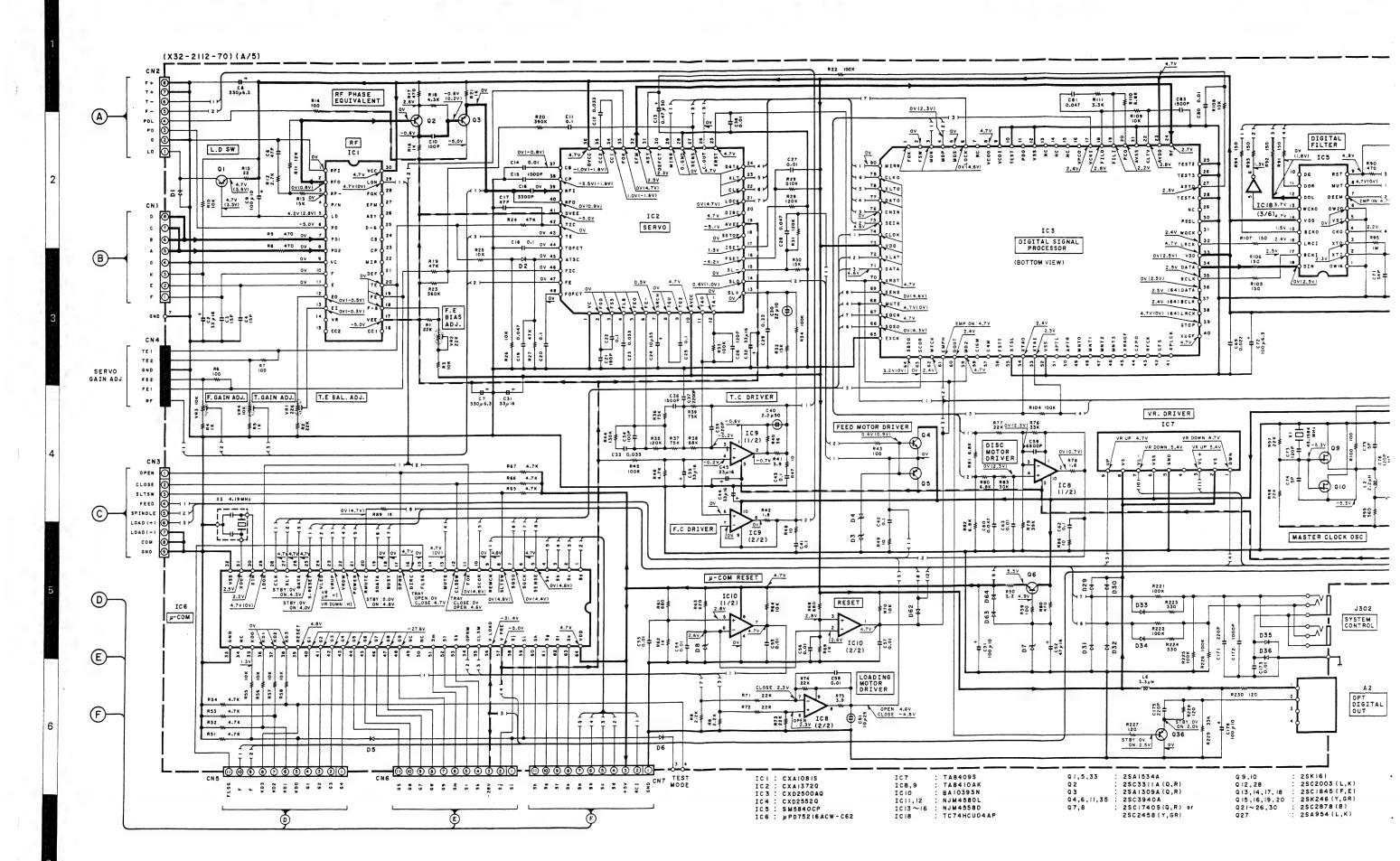
RF signal AC couple

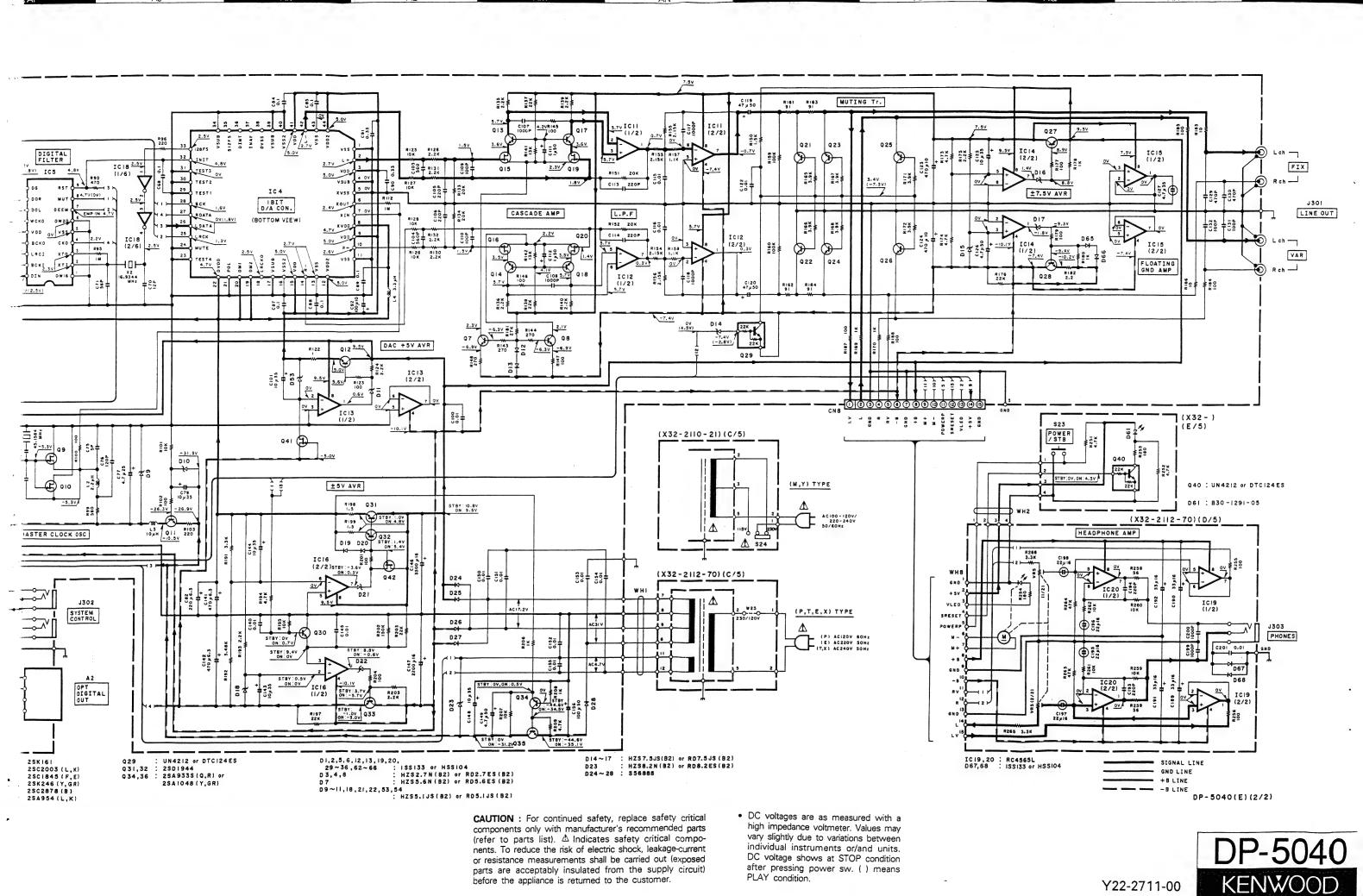
- RF signal in test mode (PLAY).
- · Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points upper and lower the center shall also be displayed clearly.

## PC BOARD (COMPONENT SIDE VIEW)

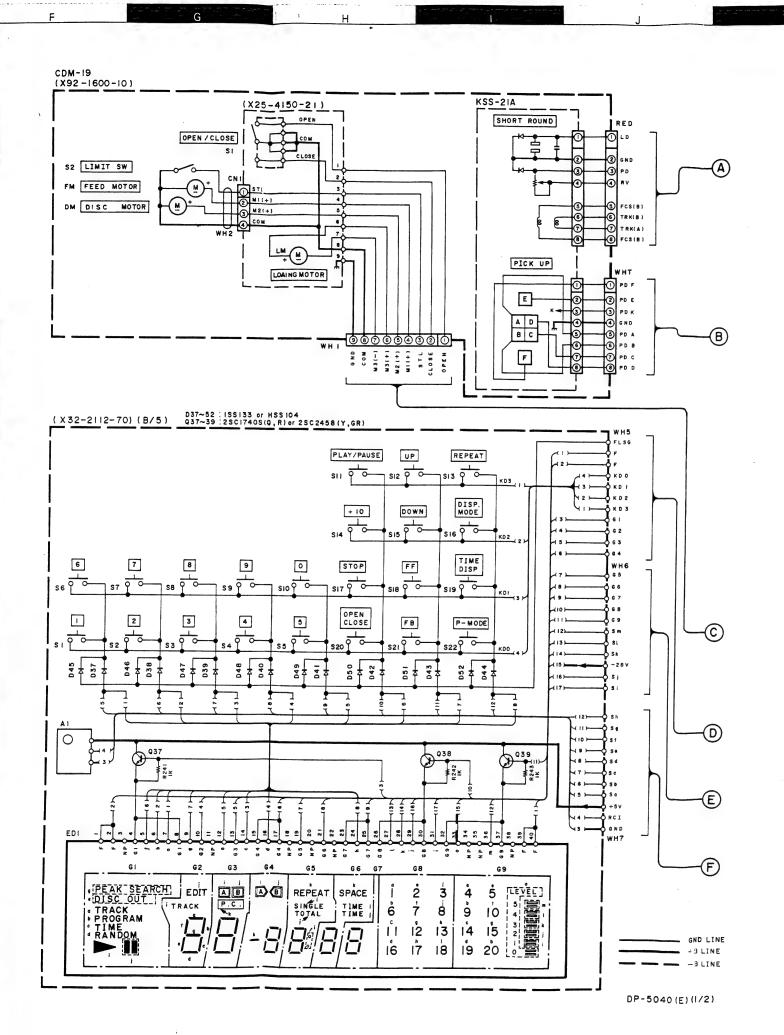








Y22-2711-00

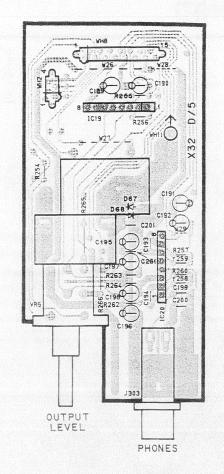


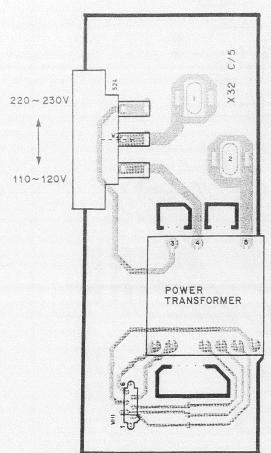
2SA1534A 2SA954 2SC1845 2SC2003 DTC124ES 2SA1048 2SD1944 UN4212 2SA933S 2SC1740S 2SA1309A 2SC2878 2SC2458 2SC3940A 2SC3311A NJM4558D TC74HCU04AP TA8409S 2SK246 2SK161 SM5840CP BA10393N CXA1081S CXD2500AQ CXA1372Q CXD2552Q μPD75216ACW-C62 RC4565L **TA8410AK** 

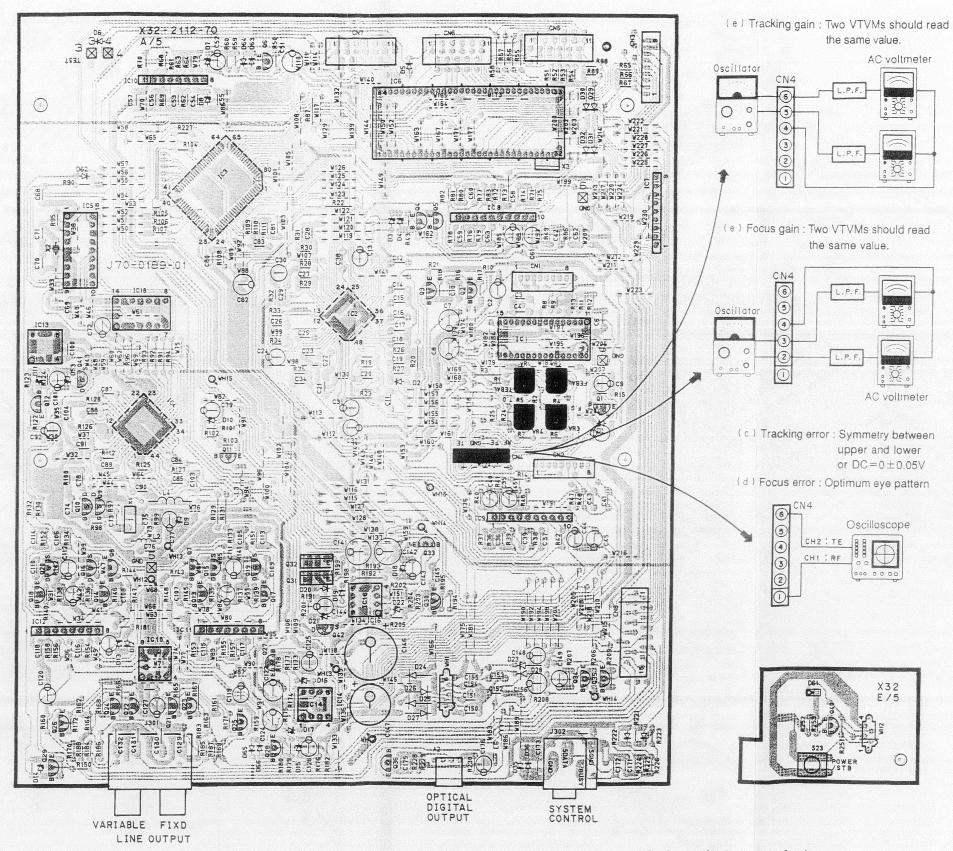
 DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
 DC voltage shows at STOP condition after pressing power sw. () means PLAY condition. **CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\triangle$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



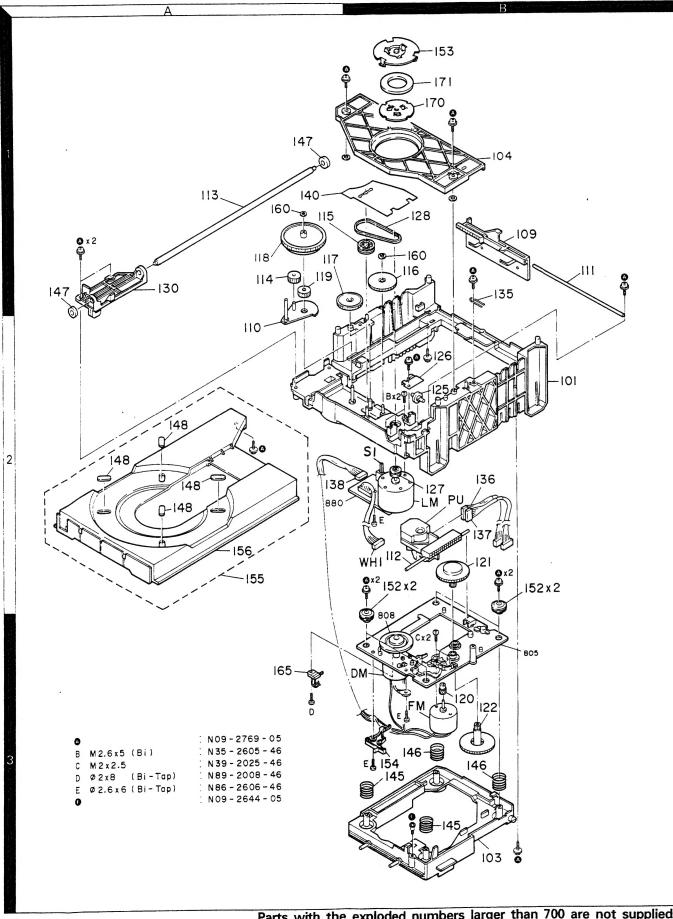
### PC BOARD (COMPONENT SIDE VIEW)





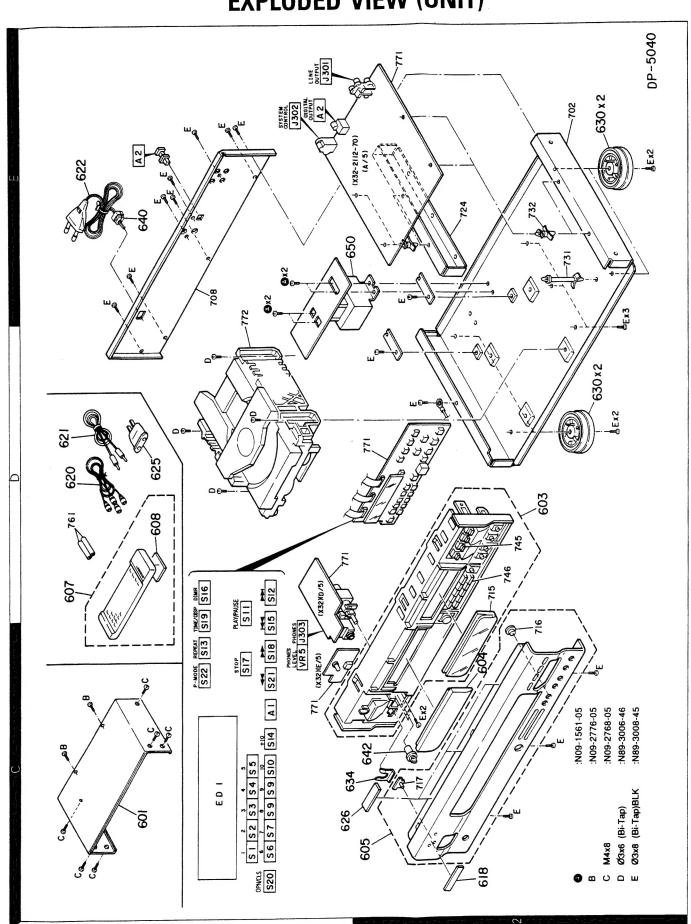


## **EXPLODED VIEW (MECHANISM)**



Parts with the exploded numbers larger than 700 are not supplied.

### **EXPLODED VIEW (UNIT)**



Parts with the exploded numbers larger than 700 are not supplied.

POTENTIOMETER PHONES LEVPUSH SWITCH (POWER TYPE)

DIQDE DIQDE ZENER DIQDE ZENER DIQDE DIQDE

HSS104 1SS133 HZS2.7N(B2) RD2.7ES(B2) HSS104

RN 2.15K RN 1.10K RN 3.46K TRIMHING POT. (22K) TRIMHING POT. (10K)

RN14BK2C2151F RN14BK2C34B1F RN14AK2C34B1F R12-3486-05 R12-3685-05 R29-1006-05 S40-1064-05 S31-2131-05

Desti- Renation marks 任 向 審券

## **PARTS LIST**

DIODE
ZENER DIODE
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DIODE

15S133 HZSS.6N(B2) RDS.6ES(B2) HZS2.7N(B2) RD2.7ES(B2)

HZS5.1S(62) RD5.1JS(62) 1SS134 1SS134 HZS7.5S(82) HZS7.5S(82) HZS5.1S(82) HZS5.1S(82) HZS5.1S(82) HZS5.1S(82) HZS5.1S(82) HZS133 DIQDE DIQDE ZENER DIQDE ZENER DIQDE DIQDE

> CXD25529 SM5840CP UPD75216ACW-( TA8409S TA8410AK BA10393N

ZENER DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE

HZS5.1S(B2) RD5.1JS(B2) HZS6.2N(B2) RD8.2ES(B2) S5688B

### **PARTS LIST**

Re- marks 事業											
Destination 在角											.,
	16WV J 5.3WV 10WV	J J J J J	<b>エ</b> わりつつ	7. 7. 3.5WV	חהמהי	25WV 16WV 3 J 16WV	J Z J 50WV	J 1040 1640 Z	SOWV J	2 3 4 6.3WV	X 2 L C X
Description 品名/規格	330F 15PF 47PF 3300F 1000F	100PF 0.10UF 0.033UF 0.47UF 0.010UF	1000PF 6800PF 47PF 0.10UF 0.047UF	0.100F 160PF 0.10UF 0.033UF	0.10UF 120PF 0.010UF 0.047UF 0.33UF	22UF 33UF 0.082UF 100PF 33UF	1500PF 2200PF 0.010UF 120PF 2.2UF	0.10UF 33UF 100UF 47UF 0.010UF	6800PF 0.047UF 10UF 0.10UF 0.010UF	0.10UF 0.022UF 12PF 56PF 100UF	120PF 5.0PF 120PF 4.7UF
<b>33</b>	ELECTRO CERAMIC CERAMIC ELECTRO	MF MF ELECTRO MF	CERAMIC MF CERAMIC MF	MF CERANIC MF MF ELECTRO	MF CERAMIC CERAMIC MF MF	NP-ELEC ELECTRO MF CERAMIC ELECTRO	MF MF CERAMIC CERAMIC NP-ELEC	MF ELECTRO ELECTRO ELECTRO CERAMIC	MF MP-ELEC MF MF	MF CERAMIC CERAMIC CERAMIC ELECTRO	MF CERAMIC CERAMIC ELECTRO
Barts No. 歌 m 未 st	CEO4LW1C330MCC CC45FSL1H150J CC45FSL1H470J CEO4LW0J331MCC CEO4LW1A101MCC	CF92FV1H101K CF92FV1H104J CF92FV1H333J CE04LW1HR47MCC CF92FV1H103J	CK45FB1H102K CF92FV1H682J CC45FSL1H470J CF92FV1H104J CF92FV1H473J	CF92FV1H104J CC45FSL1H181J CF92FV1H104J CF92FV1H333J CE04LW1V100MCC	CF92FV1H104J CC45FSL1H121J CK45FF1H103Z CF92FV1H473J CF92FV1H334J	C90-1353-05 CEO4LW1C330MCC CF92EV1H823J CC45FSL1H101J CEO4LW1C330MCC	CF92FV1H152J CF92FV1H222J CK45FF1H103Z CC45FSL1H121J C90-1350-05	CF92FV1H104J C90-1915-05 CE04LW1A101MCC CE04LW1C470MCC CK45FF1H103Z	CF92FV1H682J CF92FV1H473J C90-1332-05 CF92FV1H104J CF92FV1H103J	CF92FV1H104J CK45FF1H223Z CC45FSL1H120J CC45FSL1H560J C90-1910-05	CF92FV1H121K CC45FSL1H050C CC45FSL1H121J C90-1919-05
New Parts	*	*						* *		*	
Address N											
Ref. No.	4 8	0~0m4	C15 C16 C17 C18 C19	20 21 22 23 24	225 226 229 229	30 33 33 34 35	337 337 339 40	C41 -43 C44 ,45 C51 ,652 C53 -58	C59 C60 C61 C63	C68 C69 C70 C71	C73 C74 ,75 C76

L:Scandinavia K:USA P:Carada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFFS(Europe) X:Australia M:Other Areas

>> Now Parts
Parts without Parts No. are not supplied.

28

		<b>水</b> 电器 4	7.	R157, 158 R192 VR1 , 2 VR3 , 4	S1 S24	03	77	200 000	b18 b19 .20 b19 .20 b21 .22		053 ,54 053 ,54 062 -68 062 -68	102 103 104	106 107 108 ,9 1010
_													
ſ	Re-	金米											
	Desti-	±											
		#	35WV 22 3 3 4.3WV	7 1 2 2 2	35 X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	SOWV J J SOWV	10WV 35WV 50WV 35WV	Z 6.3WV 35WV 2	16WV 16WV 35WV 50WV Z	> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10WV 16WV 16WV J	Z (SYSTEM) (ES)	(10UH,K)
	Description	名/類	10UF 0.010UF 0.047UF 220UF 1500PF	0.10UF 0.10UF 0.33UF 100UF 0.010UF	100F 1000PF 220PF 1000PF 680PF	1.0UF 220PF 0.010UF 1000PF 47UF	4700F 100F 4.70F 4.70F	100PF 0.010UF 470UF 10UF 0.010UF	3300UF 2200UF 10UF 4.7UF 0.010UF	100UF 220PF 1000PF 0.010UF 220PF	100UF 33UF 220PF 22UF 1000PF	0.010UF (QUTPUT) HONE JACK (HEAD PHON	INDUCTOR INDUCTOR(10UH,K)
	•	海	ELECTRO CERAMIC MF ELECTRO	MF MF ELECTRO CERAMIC	ELECTRO MF MF MF	ELECTRO MF MF MF ELECTRO	ELECTRO BLECTRO BLECTRO ELECTRO	ME CERAMIC ELECTRO ELECTRO CERAMIC	ELECTRO ELECTRO ELECTRO ELECTRO CERAMIC	BLECTRO CERAMIC CERAMIC CERAMIC	ELECTRO ELECTRO MF ELECTRO	CERAMIC 0.010UF Z PHONG JACK (GUTPUT) HINIATURE PHONE JACK (SYSTEM) PHONE JACK (HEAD PHONES)	HOLDER SMALL FIXED SMALL FIXED SMALL FIXED
it gellefert.	Parts No.	* *	CEO4LW1V100MCC CK45FF1H103Z CF92FV1H473J M C90-1911-05 CF92FV1H152J M		CEO4LW1V100MCC CF92FV1H102K CF92FV1H221K CF92FV1H102J CF92FV1H681J	CEO4LW1H1ROMCC CF92FV1H221K CF92FV1H103J CF92FV1H102J CEO4LW1H470MCC	CEO4LW1A471MCC CEO4LW1V100MCC CEO4LW1H4R7MCC C90-1892-05 CF92FV1H471J	CF92FV1H101K CK45FF1H103Z CE04LW0J471MCC CE04LW1V100MCC CK45FF1H103Z	CEO4LW1C332NCC CEO4LW1C222MCC CEO4LW1V100MCC CEO4LW1H4R7MCC CK45FF1H103Z	CEO4LW1H101MCC CC45FSL1H221J CK45FB1H102K CK45FF1H103Z CF92FV1H221K	CEO4LW1A101MCC CEO4LW1C330MCC CF92FV1H221K CEO4LW1C220MCC CF92FV1H102J	CK45FF1H103Z E13-1404-05 E11-0108-05 E11-0199-05	J19-3196-04 L40-2291-17 L40-1001-17 L40-3391-17
ng l	New	a tr	*	00000	*	*	* *	*	*	*			
o. werder	Address	每										11 E	
Teile ohne Parts No. werden nicht gellefert.	Ref. No.	中非医各	C79 C80 C81 C82 C83	C84 , 85 C87 -89 C90 , 91 C92 C100	C101 C103,104 C105,106 C107,108 C109,110	C111,112 C113,114 C115,116 C117,118	C123,124 C125 C126 C127 C127	C131,132 C140 C141,142 C143,144	C146 C147 C148 C149 C150-155	C156 C171 C172 C173	C176 C189-192 C193,194 C195-198 C199,200	C201 J301 J302 J303	- 11 12 43 15

No	Address	New	Parts No.	Description	Destino	marke
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			PO	DP-5040		
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	***	A01-1514-02 A22-1525-02 A29-0198-13 A60-0148-02 A70-0568-05	HETALLIC CABINET SUB PANEL ASSY PANEL (TRAY) PANEL ASSY PANEL ASSY REMOTE CONTROLLER ASSY		
	10		8 409-0078-08	BATTERY COVER		
	2C		B43-0287-04 B46-0094-03 B46-0095-03 B46-0096-23 B46-0121-13	KENWOOD BADGE WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD	>>×a	
		**	B46-0122-23 B46-0143-13 B60-0637-00 B60-0638-00	11 (1, (	a⊢ 0.1	
		* **	-0639-00 -0679-00 -0702-00		u EE	
	10 11 16 16		-0505-05 -0977-05 -2273-05 -2275-05	AUDIO CORD (AUDIO) CORD WITH PLUG (SYSTEM) AC POWER CORD AC POWER CORD AC POWER CORD	≻×⊢	
	555		E30-2277-05 E30-2423-05 E03-0115-05	AC POWER CORD AC POWER CORD AC PLUG ADAPTER	¥°.¥	
	10		G11-0155-14	SØFT TAPE (40X9X2)		
		**	H10-5248-02 H10-5249-02 H20-0554-04 H25-0232-04 H25-0289-04	POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE PROTECTION COVER PROTECTION BAC (25X350X0.03) PROTECTION BAC (850X400X0.05)	PYMXE PYXE	
		* * *	H25-0651-04 H25-0665-04 H50-0178-04 H50-0258-04	PROTECTION BAG (0232) PROTECTION BAG (0289) ITEM CARTON CASE ITEM CARTON CASE	T PYXTE M	
	20,2E 1C 1E		J02-1002-05 J21-3326-05 J42-0083-05 J11-0163-05	FOOT JACK MOUNTING HARDWARE POWER CORD BUSHING WIRE CLAMPER		
	2C		K29-4031-04	KNOB (PHONES)		
	116		L07-0172-05 L07-0173-05 L07-0174-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	ΥX.P ₹ Σ	
	-	1	MECHANISM S33-2062-05	PCB EVER	_	-
		1	0	X		
			B30-1291-05	1.60		
L:Scandinavia	Tavia	1	K:USA P:Canada			
Y:PX(Fa	Y:PX(Far East, Hawaii)	(aii)	T:England E:Europe			

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#### **PARTS LIST**

Dof No.	Address	N	Darte No.	Contractor	4	
2 1				Description	nation	marks
物影曲化			2 年 4	智 串 九 人 然 春	-	E C
52109	1.A 3.B 3.B 2.B		D13-0892-04 D13-0894-05 D13-0895-05 D13-0896-05 D14-0324-04	CEAR (FM) GEAR (FM) GEAR (INTERMEDIATE) GEAR (FEED) ROLLER		
26 27 28 30	28 28 18	*	014-0325-04 015-0295-04 016-0309-03 023-0267-03	ROLLER ASSY MOTOR PULLEY BELT RETAINER		
35 37 38	1B 2B 2A	*	E23-0343-04 E35-0262-05 E35-0288-05 E31-7868-15	TERMINAL WIRING HARNESS WIRING HARNESS WIRING HARNESS (SP)		
40	1 A	*	F19-1027-04	BLIND PLATE		
244 244 748 8	38 38 1A 2A	****	G01-3326-14 G01-3327-14 G11-2038-04 G16-0766-04	COMPRESSION SPRING (FRONT) COMPRESSION SPRING (REAR) CUSHION SHEET		
152 153 154 155	28 38 2A 2A	* **	J02-1058-15 J11-0168-03 J19-3335-05 J99-0088-13 J99-0089-01	INSULATOR CLAMPER BRACKET TRAY ASSY TRAY		
160	1A, 1B		N19-0366-04	FLAT WASHER		
165	3.4		533-1022-05	LEVER SWITCH		
170 171 171 LM	118 118 38 28		T50-1055-04 T99-0503-15 A11-0733-05 T42-0532-05 T42-0530-05	YØKE MAGNET SUB CHASSIS ASSY DC MOTOR (FEED) DC MOTOR (LØADING)		
	2B		T25-0011-05	OPTICAL PICKUP HEAD		
1.Co. radinarija						

f. No.	Address	New	Parts No.	Description	Desti-	Re-
中華	位置	, <b>#</b>	<b>新田 李</b>	郎 品 名/溉 祐	nation (‡ 向	marks 金米
1,12 3-16 8 9,20			NJM4580L NJM4558D TC74HCU04AP RC4565L 2SA1534A	IC IC(OP AMP X2) IC(CMOS INVERTER) IC(OP AMP) TRANSISTOR		
			2SC3311A(Q,R) 2SA1309A(Q,R) 2SC3940A 2SA1534A 2SC3940A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
9,10			2SC1740S(Q,R) 2SC2458(Y,GR) 2SK161 2SC3940A 2SC2003(L,K)	TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR		
114 118 118 -26			2SC1845(F,E) 2SK246(Y,GR) 2SC1845(F,E) 2SK246(Y,GR) 2SC2878(B)	TRANSISTOR PET TRANSISTOR PET TRANSISTOR		
			2SA954(L,K) 2SC2003(L,K) DTC124ES UN4212 2SC2878(B)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
, 32			2SD1944 2SA1534A 2SA1048(Y,GR) 2SA933S(Q,R) 2SC3940A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
-39			25A1048(Y, GR) 25A333(Q, R) 25C1740S(Q, R) 25C2458(Y, GR) DTC124ES	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
, 42			UN4212 2SK246(Y,GR)	TRANSISTOR PET		
	1C 1E		W02-0975-05 W02-1036-05	ELECTRIC CIRCUIT MODULE (REMOTE) TRANSMITTING ASSY (OPTICAL)		
				MECHANISM (X92-1600-10)		
	1888	* *	A10-2798-22 A11-0695-15 A11-0686-03	CHASSIS ASSY SUB CHASSIS (FRAME) SUB CHASSIS (CLAMP)		
	18 28 18	**	D10-2479-03 D10-2481-04 D10-2489-04 D10-2490-04 D10-2491-04	SLIDER ARM ASSY ROD (SLIDER) ROD (SISC UP) ROD (RETAINER)		
	4 4 B 4 4		D13-0744-04 D13-0779-04 D13-0780-04 D13-0890-04	GEAR (PULLEY) GEAR (INTERMEDIATE) GEAR (IDLER) GEAR (MAIN)		
L:Scandinavia Y:PX(Far Ear	L:Scandinavia Y:PX(Far East, Hawaii)		K:USA P:Canada T:England E:Europe			
S.AACTON		•				

DP-5040

#### **SPECIFICATIONS**

[Format] SystemCompact disc digital audio system	Channel separation More than 103dB (at 1kHz) Wow & Flutter
LaserSemiconductor laser	Output level / Impedance
Number of channels2 channels	Fixed2V / 1kΩ
Playing rotation200rpm~500rpm (CLV)	Variable0~2V / 2kΩ
	Digital output
[D/A convertors]	Optical
D/A conversion1bit	15dBm~-21dBm (Wave length 660nm)
Over sampling8fs (352.8kHz)	Headphone output20mW (16Ω)
74	
[Audio]	[General]
Frequency response2Hz~20kHz	Power consumption14W
Signal to noise ratioMore than 110dB	DimensionsW : 440mm (17-5 / 16")
Dynamic rangeMore than 97dB	H : 118mm (4-5 / 8")
Total harmonic distortion	D : 314mm (12-3 / 8")
Less than 0.0025% (at 1kHz)	Weight (Net)4.2kg (90.2lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice

#### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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